LOG OF TEST BORING

Client:									Start Date:	End Date	:		1	Page 1	of	1
		NB TE	CHNO	LOGIES	3				2-3-95		2-3-95					
Site:	F	RISCO	, TEXA	\S					Drilling Method: HOLLOW STEM AUGER					Project N 50	Numbe -0158	
Geolog	gist:	BLAKI	E GILLI	ESPIE		Drill RM		. BROTHERS	Drill Rig Type:	:ME-750				Borehole 6	Diam Inches	
Site Coordinates: Total Depth: 22.00									Surface Elevation (ft 643.27		TOC Elevation (ft.): 646.61			PAD Ele	vation 643.2	
Datum Description: Site Datum - Elevations ref. from MSL NA									Water Level Depth (f	110	Date: 7/25/95			Time:	0647	178.
Sample Type	Recovery (Inches)	Saturation	OVM (ppm)	Depth (feet)	O despera	oriangiapriy			SIC DESCRIPTION	CONCRETE PAD	LOCICOMPRICA	KING ESSIC	ON .	c		
\bigvee	60			1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			CLAY sur	(CH) - dark brown, r face.	moist, soft, organic ma	aterial near		XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	3.0	Cement, Grout	/Bento	nite
	48						CLAV	(CH) doubted to be	sows bord 100% should	r planta			5.0	Bentonit	e Seal	I
\bigvee	48						CLAT	(Cn) - dark tan to bi	rown, hard, 10% chall	C Clasts.			7.0	2" ID So PVC Ris	hedul er	e 40
	24				610	49	GRA\	/ELLY CLAY (CL) - ta	n, moist.							
X	48	¥		11 12 12			CLAY	(CH) - tan, hard.				*		20-40 S Filter Pa	ieve S ck	and
	24			15			CLAY	'EY GRAVEL (GC) - te	an.					2" ID 0. slot PV0	.01" m C scree	1achi an
	24			18			CLAY	′ (CH) - tan, massive	soft.							
X	24			21			SHAL	.E - gray, hard, iron s athered)	tained fractures. (Eagl	e Ford Shale,			21.5	5 Threade	d PVC	Сар
	8			22	3	2	SHAL		ard. (Eagle Ford Shale) TERMINATED AT 22 F	EET			-22.0	governor med i	orts.	- r

JONES & NEUSE

LOG OF TEST BORING

BORING NO.

DO/LEANAL-Q

The property of the property o		MI	<u> </u>	JOINE	25 & IV	1203				BORING NO.	BO/LIVIVV-0
FRISCO, TEXAS Continue Description De	Client:	G	NB TE	CHNO	LOGIES						Page 1 of 1
BLAKE GILLESPIE RMT-JN/R. BROTHERS CME-750 6 Inches to Coordinates: N: 5583,0400 E: 4812.0100 22.00 Surface Elevation (ft.): 648.68 .68 .68 .68 .68 .68 .645.57 itum Description: Site Datum - Elevations ref. from MSL Datum Elevation: NA Datum Elevation: NA UITHOLOGIC DESCRIPTION OBNORTE PAD Burland OBNORTE PAD Burland	ite:	FI	RISCO	, TEXA	AS					OW STEM AUGER	Project Number: 50-01584.13
N: 553.0.400 E: 4812.0100 22.00 645.57 648.68 645.57 INTUM Description: Site Datum - Elevations ref. from MSL Datum Elevation: NA LITHOLOGIC DESCRIPTION CLAY (CH) - dark brown, organic material, moist, firm. CLAY (CH) - dark brown, organic material, moist, firm. CLAY (CH) - dark brown, organic material, moist, firm. CHAY (CH) - dark brown, organic material,	ieologis		BLAK	E GILL	ESPIE	1.		R. BROTHERS		Borehole Diameter 6 Inches	
Size Datum - Elevatione ref. from MSL NA 11.13 7/26/95 0630hr Sample S)	E: 4	4812.0	100				PAD Elevation (ft. 645.57
CLAY (CH) - dark brown, organic material, moist, firm. Cement/Benton Grout 3.0 Bentonite Seal 5.0 2* ID Schedule PVC Riser 7 SANDY CLAY (CL) - tan, firm, 10-20% course send and pebbles size chalk clasts. 20-40 Sieve Sa Filter Pack CLAYEY GRAVEL (GC) - saturated. 12 24 25 CLAYEY GRAVEL (GC) - saturated. 26 CLAY (CH) - brown, massive, very hard. 28 CLAY (CH) - brown, massive, very hard. 29 10 11 11 12 CLAY (CH) - brown, massive, very hard. 21 12 22 23 BORING TERMINATED AT 22 FEET BORING TERMINATED AT 22 FEET					ns ref. fr	om Ms	\$L				Time: 0630hrs.
Cement/Benton Grout 3.0 Bentonite Seal 5.0 2" ID Schedule PVC Riser 7.0 SANDY CLAY (CL) - tan, firm, 10-20% course send and pebbles size chalk clasts. 20-40 Sieve Sa Filter Pack CLAY (CH) - brown, massive, very hard. CLAY (CH) - brown, massive, very hard. 24 24 25 27 20-40 Sieve Sa Filter Pack CLAY (CH) - brown, massive, very hard. 21 22 23 BORING TERMINATED AT 22 FEET BORING TERMINATED AT 22 FEET	Sample Type	Recovery (Inches)	Saturation	OVM (ppm)	Depth (feet)	Stratigraphy		LITHOLOG		WELL CASING	201
CLAYEY GRAVEL (GC) - saturated. CLAY (CH) - brown, massive, very hard. CLAY (CH) - brown, massive, very hard. 2" ID 0.01 inch machine slot PV screen SAND (SP) - gray and red, medium grained, moist. SHALE - gray, hard, massive. (Eagle Ford Shale) 21.5 Threaded PVC (BORING TERMINATED AT 22 FEET		24		147	1 2		CLA	Y (CH) - dark brown, o	organic material, moist, firr		
24 CLAY (CH) - brown, massive, very hard. 2" ID 0.01 inch machine slot PV screen 2A SAND (SP) - gray and red, medium grained, moist. 2A SHALE - gray, hard, massive. (Eagle Ford Shale) 21.5 Threaded PVC (BORING TERMINATED AT 22 FEET		24			4			α		11-	- Bentonite Seal
CLAYEY GRAVEL (GC) - saturated. CLAY (CH) - brown, massive, very hard. CLAY (CH) - brown, massive, very hard. 2" ID 0.01 inch machine slot PV screen SAND (SP) - gray and red, medium grained, moist. SHALE - gray, hard, massive. (Eagle Ford Shale) 21.5 Threaded PVC (BORING TERMINATED AT 22 FEET		60			6 7 8		SAN pel	DY CLAY (CL) - tan, f obles size chalk clasts	irm, 10-20% course sand		— 2" ID Schedule 4 PVC Riser .0
24 CLAY (CH) - brown, massive, very hard. 2" ID 0.01 inch machine slot PV screen 2 SAND (SP) - gray and red, medium grained, moist. 21.5 Threaded PVC (Search of Shale) 20 BORING TERMINATED AT 22 FEET	1	12	. <u>¥</u>		9 -10 -11						— 20-40 Sieve San Filter Pack
24 24 24 24 24 24 24 24 24 24 24 24 24 2		48			13						
24 24 25 26 27 28 29 20 20 20 20 21 20 21 22 23 23 24 24 25 25 26 27 28 29 20 20 20 21 20 21 20 21 21 22 23 23 24 24 25 26 27 27 28 29 20 20 20 21 21 22 23 22 23 24 24 25 26 27 27 28 29 20 20 20 21 21 22 23 22 23 24 24 25 26 27 27 28 29 20 20 20 20 20 21 21 22 23 22 24 25 26 27 27 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20	2	24			16				,		 2" ID 0.01 inch machine slot PV0 screen
SHALE - gray, hard, massive. (Eagle Ford Shale) 21 22 BORING TERMINATED AT 22 FEET 23 BORING TERMINATED AT 22 FEET	2	24			=		1		medium grained, moist		8
BORING TERMINATED AT 22 FEET	2	24			21		:			2	1.5 Threaded PVC Co
					23			BORING T	ERMINATED AT 22 FEET	2	2.0
NOAD A (O.OE)	2045		- 10.0	(F)	= 24						REV 8

JONES & NEUSE

LOG OF TEST BORING

BORING NO.

B9/LMW-9

lient:		SNB TE	CHNO	LOGIES				Start Date: 2-4-95	End Date: 2-4	95	Page 1 of 1
ite:			, TEXA	-				Drilling Method: HOLLOW STEM AUGER Drill Rig Type: CME-750			Project Number: 50-01584.13
ieolog	jist:	BLAK	E GILLE	ESPIE		Oriller: RNT-JN/F	R. BROTHERS				Borehole Diameter 6 Inches
Site Coordinates: Total Depth: N: 5888.8400 E: 4833.3600 24.00								Surface Elevation (ft.): 660.48	TOC Eleva	tion (ft.):	PAD Elevation (ft. 660.48
Datum Description: Site Datum - Elevations ref. from MSL							Datum Elevation: NA	Water Level Depth (ft.): 18.74ft.	Date: 4/2	4/95	Time:
Sample Type	Recovery (Inches)	Saturation	OVM (ppm)	Depth (feet)	Stratigraphy		LITHOLOG	SIC DESCRIPTION	CONCRETE PAD (Suriace Seal)	LOCKING MPRESSION CAP	
	12 12 24			1 2 3 4 4 5 6 6 7				oft, friable, organic mater ly soft. ng into jointed clay with re		5.	- Bentonite Seal
	24	F2		9 —10 —11						9.	 2" ID Schedule 40 PVC Riser 0 20-40 Sieve Sand Filter Pack
	24			13 14 15 16		tan to	o brown, jointed.	r v			= 2" ID 0.01 inch machine slot PVC Screen
7	24			16 		gray,	massive, jointed, dry				
	24			20 21		SHAI	E - grey massing ha	rd ways taytura wast-	od		
				23 24		SHAL (Eag	.c - gray, massive, ha gle Ford Shale)	rd. waxy texture, weather	ed.	23	5.5Threeded PVC Ca
- 1		tin (8-9		Ε			PODING T	ERMINATED AT 24 FEET	1		

LOG OF TEST BORING

JONES & NEUSE

BORING NO. LMW-17

Geologisti DAVID McQUADE DAVID McQUADE E.O.S.I./MIKE MoNITT Size Coordinates: N. 5628.1683 E. 4507.0130 Datum Description: Site Desum - Elevations ref. from MSL Datum Elevation: NA Datum Description: Site Desum - Elevations ref. from MSL LITHOLOGIC DESCRIPTION COMMUNICATION DATUM Description: Size Desum - Elevations ref. from MSL LITHOLOGIC DESCRIPTION COMMUNICATION DESCRIPTION COMMUNICATION DATUM Elevation: NA LITHOLOGIC DESCRIPTION COMMUNICATION COMMUNICATION DESCRIPTION COMMUNICATION DESCRIPTION COMMUNICATION DESCRIPTION COMMUNICATION COMMUNICATION DESCRIPTION DESCRIPTION COMMUNICATION DESCRIPTION DESCRIP	Client:	GNB TE	CHNOL	LOGIES				Start Date: 7-21-95	End Date: 7-24-95	Page 1 of 1
DAVID McQUADE E.D.S.I./MIKE McNITT CME-750 8 Inches Site Coordinates: N. 5626.1668 E: 4507.0130 Datum Elevation; NA Datum Description: Site Datum - Elevations ref. from MSL Datum Elevation; NA Datum Elevation (ft.): Oake; NA Datum Elevation; NA Datum Elevation (ft.): Oake; NA Datum Elevation (ft.): NA Datum Elevation (ft.): Oake; NA Datum Plevation Tena Datum Plevation Tena Datum Plevation Tena Datum Plevation Tena Datum Elevation (ft.): Oake; NA Datum Plevation Tena Time: Ocal Stripe Tena Datum Plevation		FRISCO	, TEXA	.S					Project Number: 50-01584.13	
N. 5628.1663 E: 4507.0130 23.00 846.34 648.84 646.34 Datum Description: Site Datum - Elevations ref. from MSL NA Datum Elevations ref. from MSL NA Datum Elevations ref. from MSL LITHOLOGIC DESCRIPTION CHARGE AND DES	Geologist:	DAVI	D McQl	UADE			IIKE McNITT		:-750	Borehole Diameter: 8 Inches
Site Datum - Elevations ref. from MSL 13.52 7/26/95 0643hrs. LITHOLOGIC DESCRIPTION Output Discription Case of			3	E: 4	1507.01	30		1	1 10	PAD Elevation (ft.): 646.34
CLAYEY GRAVEL with sand (GC) - fine grained, subangular, poorly graded, poorly gr				s ref. fr	om MSL					
24 24 25 36 36 37 8 8 8 9 10 increase sand content, fine to coarse grained; wet. Filter Pack 24 24 25 36 37 Filter Pack CLAYEY SAND (SC) - fine to coarse grained, subangular, poorly graded; no plasticity; loose; tan; wet. CLAYEY SAND (SC) - fine to coarse grained, subangular, poorly graded; no plasticity; loose; tan; wet. CLAYEY GRAVEL with sand (GC) - fine grained, rounded, poorly graded; loose; tan; wet. CLAYEY GRAVEL with sand (GC) - fine grained, rounded, poorly graded; loose; tan; wet. CLAYEY GRAVEL with sand (GC) - fine grained, rounded, sand seam, very fine grained. SHALE - gray; dense; hard. (Eagle Ford Shale) SUMP 23.0	Sample Type Recovery (Inches)	Saturation	OVM (ppm)	Dopth (feet)	Stratigraphy		LITHOLOG	GIC DESCRIPTION	WELL CASING CASING	(4)
24 36 37 8 9 10 10 11 11 12 24 24 25 36 36 36 36 36 36 36 36 36 3				1 2		cLA)	' (CH) - trace sand, fir angular, sand is chall wn; moist.	ne grained, poorly graded k matrix; plastic; hard; ve	ry dark	Cement/Bentonite Grout
Bentonite Seal 8 8 9 10 10 increase sand content, fine to coarse grained; wet. 11 12 12 13 14 14 15 CLAYEY SAND (SC) - fine to coarse grained, subangular, poorly graded; no plasticity; loose; tan; wet. 16 CLAYEY GRAVEL with sand (GC) - fine grained, rounded, poorly graded; loose; tan; wet. 18 19 20 CLAYEY GRAVEL with sand (GC) - fine grained, rounded, poorly graded; loose; tan; wet. 21 22 23 Sump 22 23 BORING TERMINATED AT 23 FEET 23 23 BORING TERMINATED AT 23 FEET				5			4		6.0	
increase sand content, fine to coarse grained; wet. 10.0 11 12 13 14 15 16 16 17 18 19 19 10 10 10 Filter Pack 4* ID, 0.01 inch a PVC acreen CLAYEY SAND (SC) - fine to coarse grained, subangular, poorly graded; no plasticity; loose; tan; wet. CLAYEY GRAVEL with sand (GC) - fine grained, rounded, poorly graded; loose; tan; wet. CLAYEY GRAVEL with sand (GC) - fine grained, rounded, poorly graded; loose; tan; wet. 24 24 24 24 25 26 27 28 BORING TERMINATED AT 23 FEET 28 28 29 20 20 20 20 20 20 20 20 20				7 8 9			e			- Bentonite Seal
silty sand seam. fine grained CLAYEY SAND (SC) - fine to coarse grained, subangular, poorly graded; no plasticity; loose; tan; wet. CLAYEY GRAVEL with sand (GC) - fine grained, rounded, poorly graded; loose; tan; wet. CLAYEY GRAVEL with sand (GC) - fine grained, rounded, poorly graded; loose; tan; wet. CLAY (CH) - silty; hard; plastic; gray with rust and yellow mottling; moist. sand seam, very fine grained. SHALE - gray; dense; hard. (Eagle Ford Shale) Sump 23 BORING TERMINATED AT 23 FEET				10 11 12		incre	ase sand content, find	e to coarse grained; wet.		
CLAYEY GRAVEL with sand (GC) - fine grained, rounded, poorly graded; loose; tan; wet. 18 19 CLAY (CH) - silty; hard; plastic; gray with rust and yellow mottling; moist. sand seam, very fine grained. SHALE - gray; dense; hard. (Eagle Ford Shale) Sump BORING TERMINATED AT 23 FEET 23.0	24	¥		15					gular,	- 4" ID, 0.01 inch si PVC screen
24 24 24 25 26 27 28 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20	36			17		CLAY	EY GRAVEL with sar orly graded; loose; tar	nd (GC) - fine grained, rou ; wet.	nded,	200
Sump 22 23 BORING TERMINATED AT 23 FEET 23.0				20		mo sand	ttling; moist. seam, very fine grain	ed.	yellow 20	.0
	X 24			23			BORING 1	ERMINATED AT 23 FEE		_
MEV X		74- 92-1-								REV 8/9

Log of Boring: PMW-19R **Exide Technologies** Completion Date: 2/26/2013 **HSA** Drilling Method: Frisco Recycling Center Drilling Company: Strata Core Services, LLC Borehole Diameter (in.): 7.75 Frisco, TX Driller: Dan Spaust Total Depth (ft): 3038M 7104749.0329 Driller's License: Northing: Roberta Russell 2481299.2174 Logged By: Easting: PBW Project No. 1755 Ground Elev. (ft AMSL): 678.45 Tim Jennings, P.G. Field Supervisor: Sampling Method: 5' Split Spoon TOC Elev. (ft AMSL): 681.79 Recovery (ft/ft) Depth Well Lithologic **USCS** Sample (ft) Materials Description (0 - 3.0) CLAY with trace gravel, dark reddish brown, moist, soft to firm, low to medium 0 0-0.5 plasticity, abundant calcareous nodules. 1 0.5-2 εĿ 2 3.6/5.0 3 2-4 (3.0 - 13.0) Clayey SILT/Silty CLAY, dark reddish brown, yellowish brown from 7-10', slightly moist, very hard, low plasticity, friable from 5-6.5'. 4 4-5 5 6 7 3.1/5.0 CLIMI 8 9 10 11

(13.0 - 14.0) Clayey SAND/Sandy CLAY, light yellowish brown with orange staining (iron oxide), moist, soft, low plasticity.

(14.0 - 19.0) SHALE, dark gray with orange staining (iron oxide along fractures and bedding planes), dry to slightly moist, soft to firm, high plasticity, weathered.

(19.0 - 20.0) SHALE, dark gray, dry, very hard.

PBW

3.4/5.0

4.5/5.0

SC/CI

SH

12

13

14

15

16

17

18

19

20

Pastor, Behling & Wheeler, LLC 2201 Double Creek Dr., Suite 4004 Round Rock, TX 78664 Tel (512) 671-3434 Fax (512) 671-3446

This log should not to be used separately from report.

Static Water Level (3/11/13) Depth to water (ft BGS): DRY

Annular Materials

(0.0 - 0.5) Concrete (0.5 - 1.0) Bentonite Grout (1.0 - 2.5) Bentonite Hole Plug (2.5 -19.0) 20/40 Silica Sand (19.0 - 20.0) Sloughed Material Well Materials

(+3.34 - 4.0) Casing, 2" Sch 40 FJT PVC (4.0 - 19.0) Screen, 2" Sch 40 FJT PVC,

Log of Boring: PMW-20R **Exide Technologies** Completion Date: 2/26/2013 **HSA** Drilling Method: Frisco Recycling Center Borehole Diameter (in.): 7.75 Drilling Company: Strata Core Services, LLC Frisco, TX Driller: Chris Combs Total Depth (ft): 56033 7104442.6782 Driller's License: Northing: Roberta Russell 2480409.0533 Logged By: Easting: PBW Project No. 1755 Ground Elev. (ft AMSL): 645.2 Tim Jennings, P.G. Field Supervisor: Sampling Method: 5' Split Spoon TOC Elev. (ft AMSL): 648.09 Recovery (ft/ft) Depth Well Lithologic **USCS** Sample (ft) Materials Description 0-0.5 (0 - 2.6) CLAY, dark reddish brown, moist, soft, high plasticity. 0 1 СH 0.5 - 22 5.0/5.0 (2.6 - 7.5) Clayey SILT, dark reddish brown, dry to moist, very hard, low plasticity, 3 2-4 trace to moderate calcareous nodules. 4 4-5 5 ML · 6 2.7/5.0 (7.5 - 11.0) Sandy CLAY/Clayey SAND, moist, soft to firm, low plasticity, more clay 8 with depth, abundant calcareous nodules. 9 SCICL 10 11 (11.0 - 19.5) CLAY, reddish yellow, with trace to moderate gravel, moist, firm, low to medium plasticity, very fine to medium gravel (5-20%) in clay matrix. 12 5.0/5.0 13 14 15 eν 16 17 5.0/5.0 18 19 (19.5 - 20.0) GRAVEL with clay; reddish yellow, wet, very soft, ~20-30% clay matrix. ĞÇ 20 (20.0 - 21.8) CLAY with gravel; reddish yellow, wet, soft to firm, low to medium plasticity clay, <5% carbonate gravel in clay. εĹ 21 (21.8 - 23.0) GRAVEL with clay; reddish yellow, wet, soft, 30-40% low to medium 22 ĠС 5.0/5.0 plasticity clay matrix in fine to medium gravel. 23 (23.0 - 23.5) CLAY with gravel; reddish yellow, very moist, hard, low to medium CL plasticity clay, 30-40% fine to medium gravel. 24 (23.5 - 25.0) SHALE, dark gray, dry, very hard, low to medium plasticity, fissile, slightly SH weathered. 25

PRW

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This log should not to be used separately from report.

Static Water Level (3/11/13)

Depth to water (ft BGS): 16.02

Annular Materials

(0.0 - 2.0) Concrete (2.0 - 7.0) Bentonite Grout (7.0 - 9.0) Bentonite Hole Plug (9.0 - 25.0) 20/40 Silica Sand Well Materials

(+2.89 - 10.0) Casing, 2" Sch 40 FJT PVC (10.0 - 25.0) Screen, 2" Sch 40 FJT PVC, 0.010 slot

Log of Boring: LMW-21 **Exide Technologies** Completion Date: 2/27/2013 **HSA** Drilling Method: Frisco Recycling Center Borehole Diameter (in.): 7.75 Drilling Company: Strata Core Services, LLC Frisco, TX Driller: Chris Combs Total Depth (ft): 56033 7104289.0201 Driller's License: Northing: 2480478.4778 Logged By: Tim Jennings, P.G. Easting: PBW Project No. 1755 Ground Elev. (ft AMSL): 645.12 Field Supervisor: Tim Jennings, P.G. Sampling Method: 5' Split Spoon TOC Elev. (ft AMSL): 648.28 Recovery (ft/ft) Depth Well Lithologic USCS Sample (ft) Materials Description 0-0.5 (0 - 1.1) Sandy, gravelly CLAY; wet, very soft, slow dilatancy, high plasticity clay, 0 ~20-30% fine sand and fine gravel. 1 0.5 - 2(1.1 - 7.9) Silty CLAY, dark gray, moist, firm to hard, no dilatancy, medium to high plasticity, trace carbonate gravel below 5'. 2 5.0/5.0 3 2-4 СН 4-5 5 6 5.0/5.0 8 (7.9 - 10.6) Clayey, gravelly SAND; light brown, fine to coarse sand, moist, soft to firm, medium plasticity clay, ~10-20% clay and ~10-20% fine to medium gravel. 9 SW 10 (10.6 - 13.5) Clayey SILT, light brown, moist, soft to firm, slow dilatancy, medium 11 plasticity. 12 eL 5.0/5.0 13 (13.5 - 16.0) Gravelly, clayey SAND; light brown, fine to coarse sand, moist to wet, wet 14 at 15.8-16', firm to soft, ~40-50% fine to medium gravel, ~5-10% clay above 15'. SW 15 16 (16.0 - 17.2) Sandy SILT, light brown, wet, soft, medium plasticity. ML 17 (17.2 - 21.8) Sandy, gravelly CLAY; wet to dry, firm to hard, medium plasticity clay, 2.5/5.0 fine to medium gravel (~5-10%) and fine to coarse sand (~10-20%) in clay matrix. 18 19 ĆΥ 20 21 22 (21.8 - 25.0) SHALE, brownish gray, dry, very hard. 2.2/5.0 23 SH 24 25



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This log should not to be used separately from report.

Static Water Level (3/11/13)

Depth to water (ft BGS): 16.94

Annular Materials

(0.0 - 2.0) Concrete (2.0 - 8.0) Bentonite Hole Plug (8.0 - 25.0) 20/40 Silica Sand Well Materials

(+3.16 - 10.0) Casing, 2" Sch 40 FJT PVC (10.0 - 25.0) Screen, 2" Sch 40 FJT PVC,

Log of Boring: LMW-22 **Exide Technologies** Completion Date: 2/27/2013 Drilling Method: HSA Frisco Recycling Center Drilling Company: Strata Core Services, LLC Borehole Diameter (in.): 7.75 Frisco, TX Driller: Total Depth (ft): Dan Spaust Driller's License: 3038M 7103973.4829 Northing: Logged By: Roberta Russell Easting: 2480733.8536 PBW Project No. 1755 Ground Elev. (ft AMSL): 643.32 Tim Jennings, P.G. Field Supervisor: Sampling Method: 5' Split Spoon TOC Elev. (ft AMSL): 646.71

Depth (ft) Well Materials USCS Sample USCS Sample Description O 1 0 0.5-2 2 - 4.5/5.0 USCS Sample USCS Sample Description O-0.5 (0 - 12.5) CLAY/Silty CLAY, dark reddish brown, yellowish brown from soft to firm, low to medium plasticity, ~10% calcareous nodules from 9	n 9-12.5', moist, 9-12.5'.
0 0-0.5 (0 - 12.5) CLAY/Silty CLAY, dark reddish brown, yellowish brown from soft to firm, low to medium plasticity, ~10% calcareous nodules from 9	n 9-12.5', moist, 9-12.5'.
2 - 0.5-2	9-12.5.
3 - 2-4	
4 -	
5 -	
6 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
7 - 4.4/5.0	
8 - 4.4000	
9 - 1 - 1 - 1 - 1	
10 - 64	
13 - 4.0/5.0 (12.5 - 13.0) CLAY with gravel; yellowish brown, moist, soft, low plastic gravel in clay matrix.	
14 – (13.0 - 16.0) Sandy CLAY, yellowish brown, moist, soft, low plasticity.	
15 — 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	
16 — (16.0 - 17.0) Gravelly CLAY, yellowish brown, gravel in ~30-40% clay	matrix.
17 - (17.0 - 19.5) Silty CLAY, grayish brown with orange staining, very moil low plasticity.	ist, soft to firm,
20 SH (19.5 - 20.0) SHALE, gray, dry, hard, low to medium plasticity.	

PBW

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This log should not to be used separately from report.

Static Water Level (3/11/13)

Depth to water (ft BGS): 13.78

Annular Materials

(0.0 - 0.5) Concrete (0.5 - 1.0) Bentonite Grout (1.0 - 2.5) Bentonite Hole Plug (2.5 - 20.0) 20/40 Silica Sand Well Materials

(+3.67 - 5.0) Casing, 2" Sch 40 FJT PVC (5.0 - 20.0) Screen, 2" Sch 40 FJT PVC,